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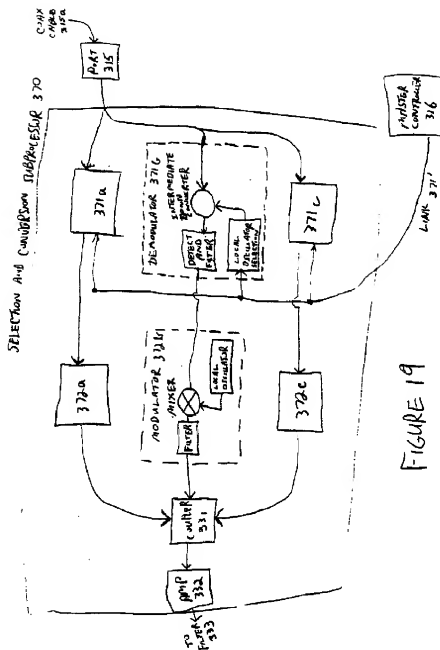
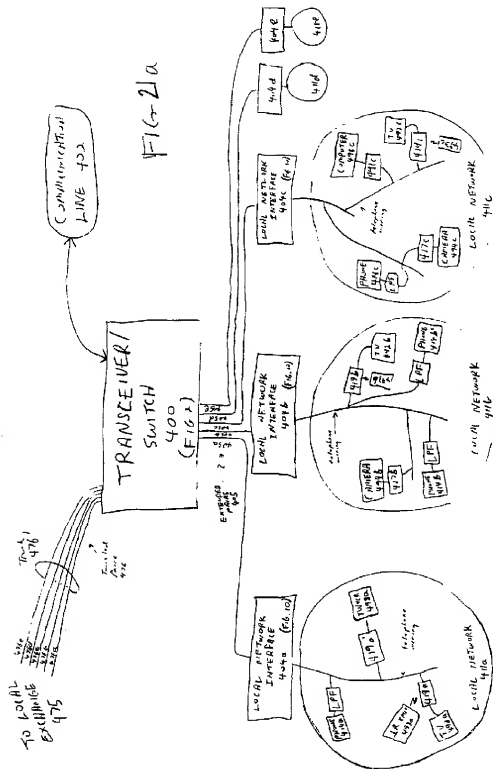


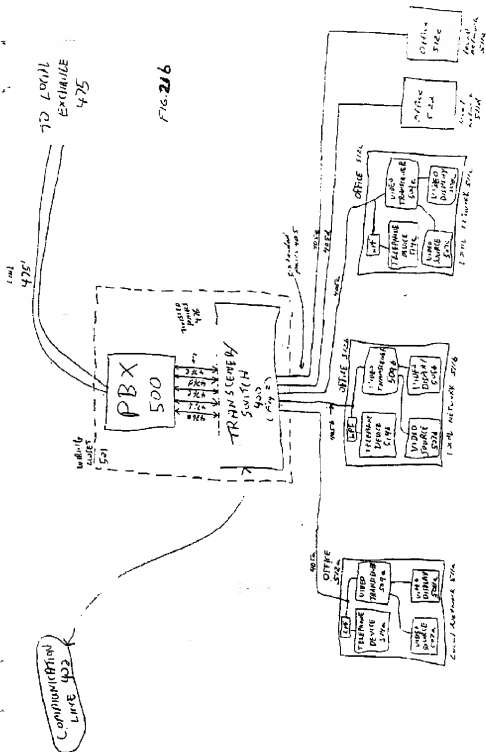
FIGURE 19

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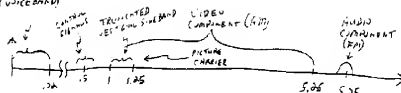
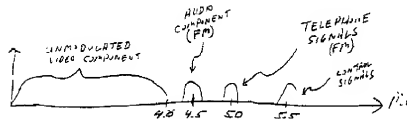
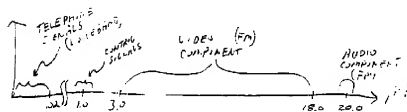


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FILE 216

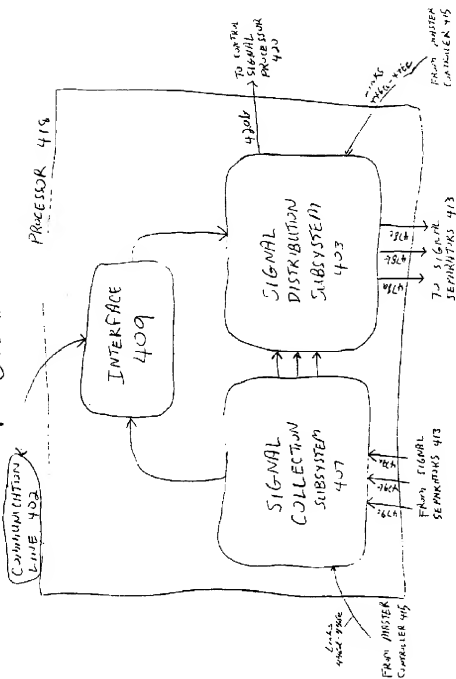


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FIG.
23aTELEPHONE
SIGNALS
(VOICE BAND)SPECTRUM OF AN AMPLITUDE
MODULATED NTSC SIGNAL
NEAR VOICE BANDFIG.
23bSPECTRUM OF AN NTSC SIGNAL
TRANSMITTING AT BASEBANDFIG.
23cSPECTRUM OF AN FM NTSC
SIGNAL NEAR VOICE BAND

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FIG. 24



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FIG 24a

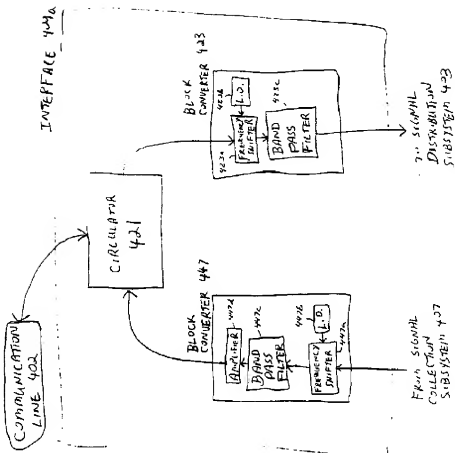
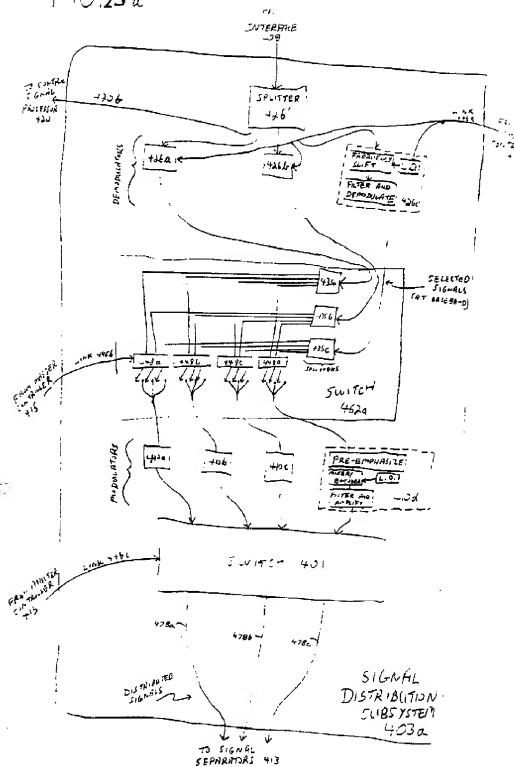
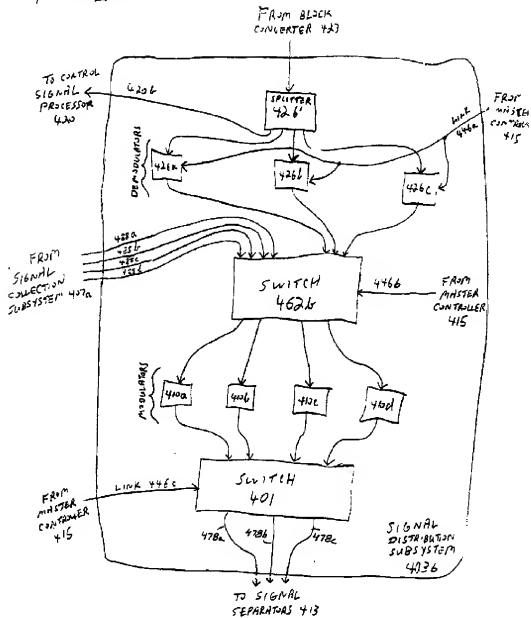


FIG. 25a



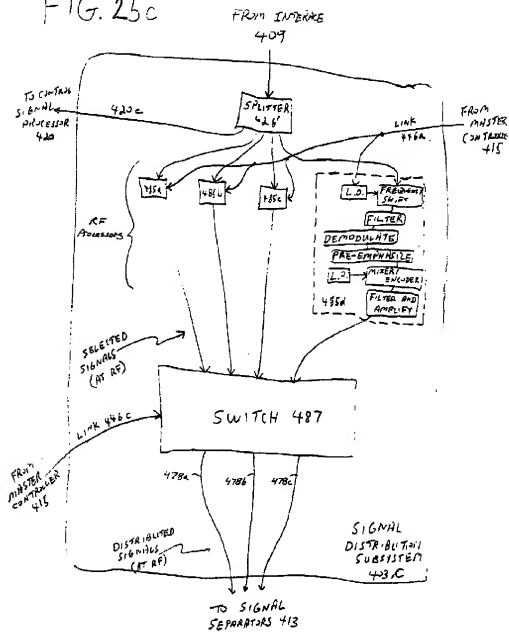
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FIG. 25b



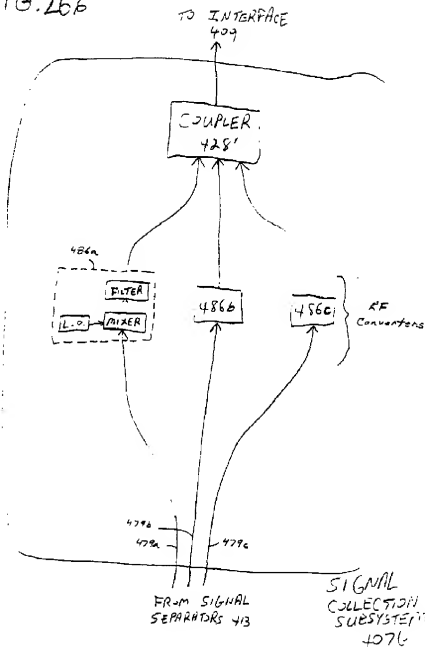
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FIG. 25c



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FIG. 26b



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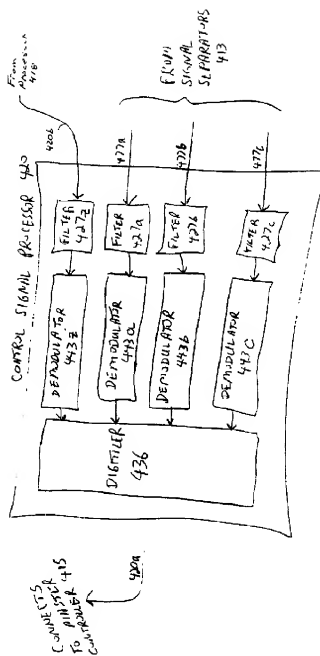


FIGURE 27

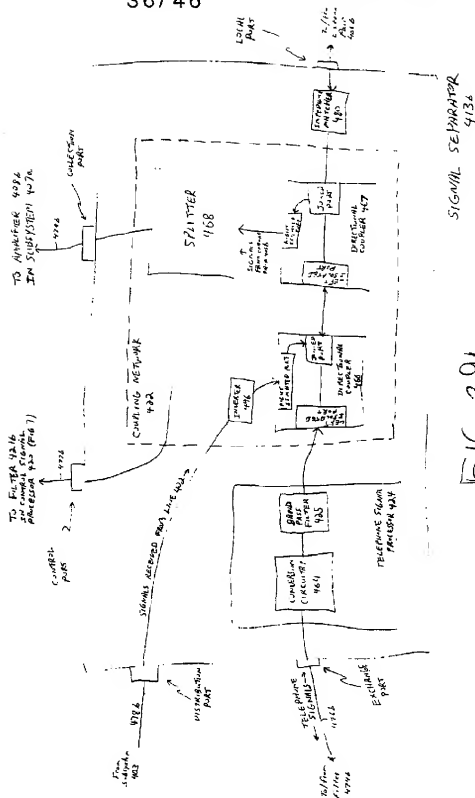
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FREQUENCY DURING
TRANSMISSION OVER
LOCAL NETWORKS (MHz)

FREQUENCY DURING
TRANSMISSION OVER
EXTENDED AREAS (MHz)

| ORIGIN/DEST | 405a | 405b | 405c | 411a | 411b | 411c |
|-------------|----------|-------------|-------------|-------------|-------------|-------------|
| CANAL A | 493a/415 | | | 22.7F-23.2F | | |
| B | 493b/415 | 22.7F-23.2F | | | 22.7F-23.2F | |
| C | 493c/415 | | 22.7F-23.2F | | | 22.7F-23.2F |
| VIDEO U | 402/492a | | | | | |
| | 402/492b | 1-6 (nm) | | 12-18 (nm) | | |
| V | 402/492c | 7-22 (nm) | 1-6 (nm) | 24-30 (nm) | 54-60 (nm) | 12-18 (nm) |
| W | 494b/402 | | | | 6-12 (nm) | |
| X | 494c/402 | | 24-54 (nm) | | | 6-12 (nm) |
| DIGITAL Y | 402/495c | | 6-18 | | | 18-40 |
| Z | 495c/402 | | 54-100 | | | 1-6 |

11-98



SIGNAL SEPARATOR
4136

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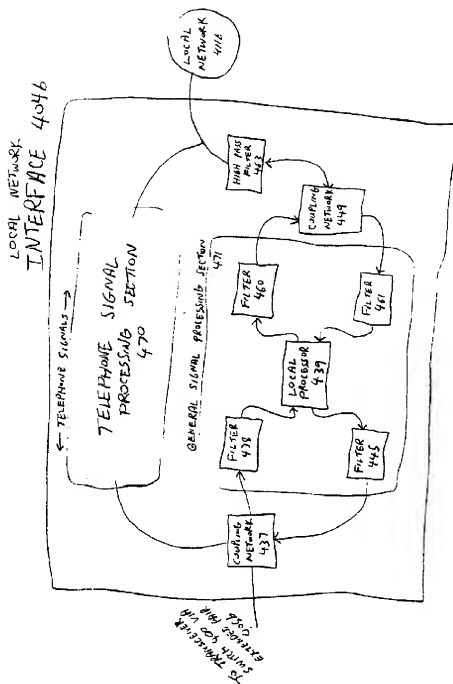


FIG 30

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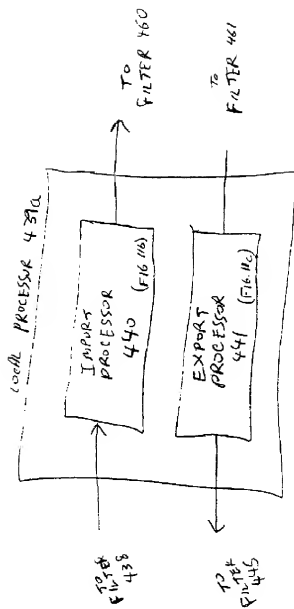
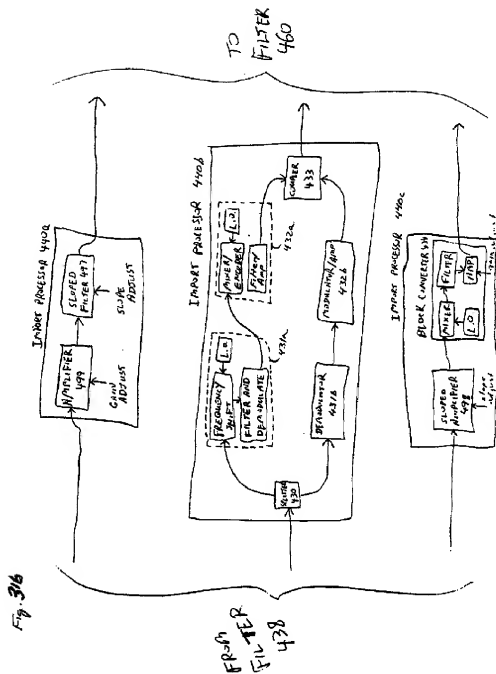


FIG. 31a



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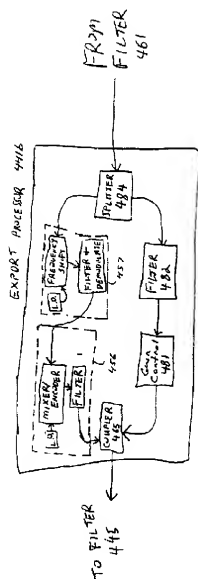
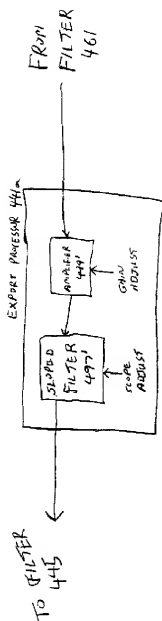


Fig. 21-

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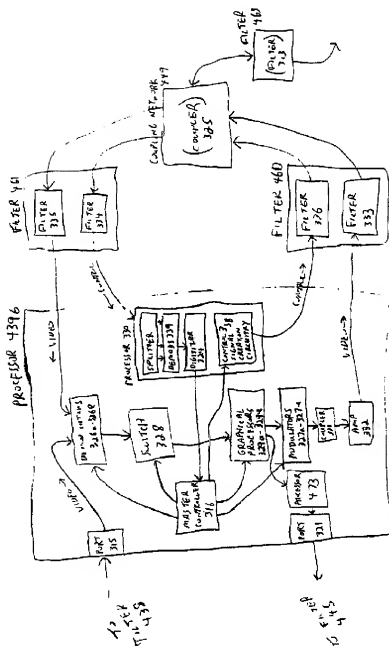
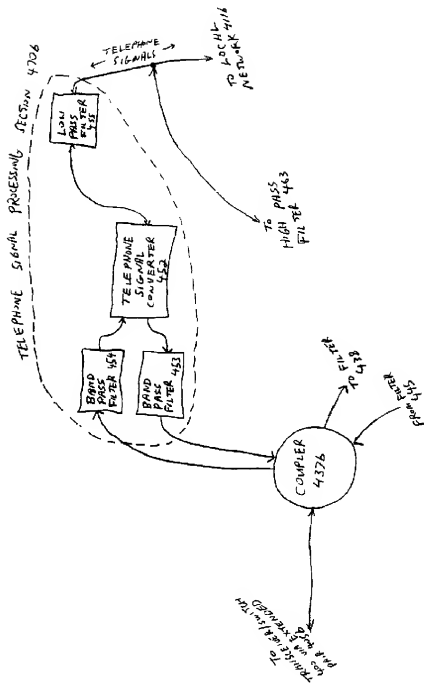


FIG. 32

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FIG. 336



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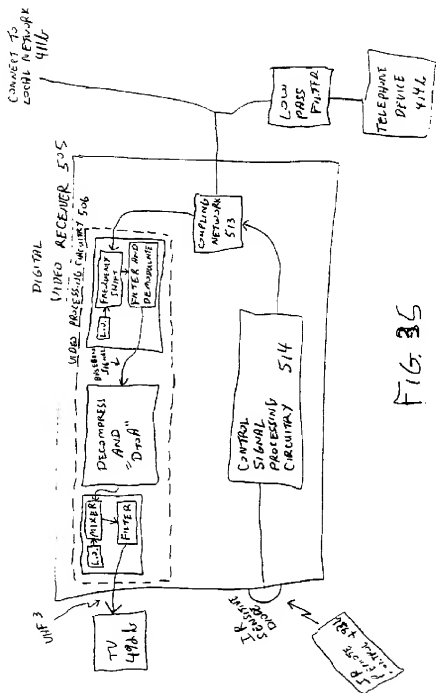
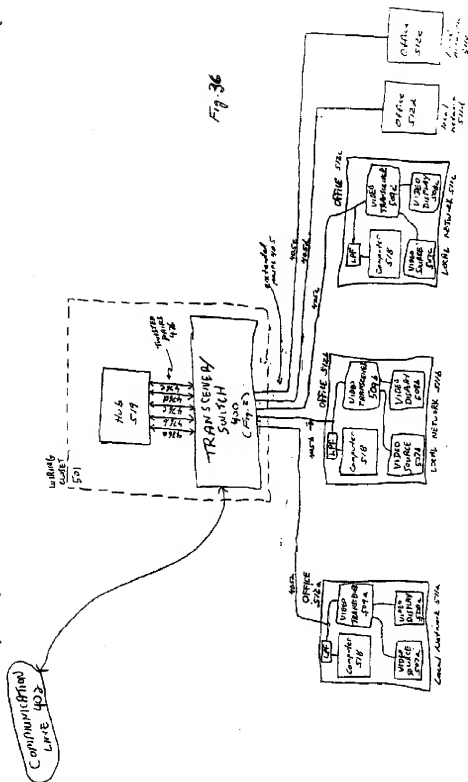


FIG. 35

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Fig 36



INTERNATIONAL SEARCH REPORT

International application No.
PCT/US92/10330

A. CLASSIFICATION OF SUBJECT MATTER

IPC(5) H04N 7/14

U.S. Class 358/85

Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 379/53,54,64,65,90,101,102,104,105,110,93,96-998; 358/86,194.1; 359/142,145-148; 381/2,3,29,31.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|---|
| X Y | US,A, 3,723,653 (TATSUZAWA) 27 MARCH 1973 See abstract, all figures | 1, 2, 4, 6, 8-14, 41-50, 54-65, 67, 68, 71-73, 77-80 51-53, 66, 69, 70, 74-76 |
| X Y | EP,A, 0,244,260 (IWAMURA ET AL) 04 NOVEMBER 1987 See abstract | 1, 2, 4, 6, 8-14, 41-50, 54-65, 67, 68, 71-73, 77-80 51-53, 66, 69, 70, 74-76 |

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

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| * Special categories of cited documents: | *T | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| *A* document defining the general state of the art which is not considered to be part of particular relevance | *X* | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| *B* earlier document published on or after the international filing date | *Y* | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| *L* document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | *Z* | document member of the same patent family |
| *O* document referring to an oral disclosure, use, exhibition or other means | | |
| *P* document published prior to the international filing date but later than the priority date claimed | | |

Date of the actual completion of the international search

24 FEBRUARY 1993

Date of mailing of the international search report

28 APR 1993

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
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Washington, D.C. 20231Authorized officer *W.F. Chan*
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Telephone No. (703) 305-4732

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US92/10330

| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|---|--|--|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| <u>X</u> Y | US,A, 4,849,811 (KLEINERMAN) 18 JULY 1989 See abstract, all figures | 1, 2, 4, 6, 8-14, 41-50, 54-65, 67, 68, 71- <u>73, 77-80</u> 51-53, 66, 69, 70, 74-76 |
| Y | WO,A, W088/05974 (GRANDMOUGIN) 11 AUGUST 1988 See abstract | 1-29, 41-80 |
| <u>X</u> Y | JP,A, 1-27358 (SUZUKI) 30 JANUARY 1989 See abstract | <u>1-16, 22-24</u> 17-21 |